

BRADLEY, LISA
 110 COSIMO DRIVE, WOODVALE. 6026
 Phone: 0439034491
 Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
 Your Reference: 00001598 Lab Reference: 24-22021329-HAE-0
 Laboratory: AUSTRALIAN CLINICAL LABS
 Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
 Copy to:
 DR SARAH CARTER
 PATIENT COPY:

Name of Test: HAEMATOLOGY GENERAL
 Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024
 13:09

CLINICAL NOTES: to follow

HAEMATOLOGY

SPECIMEN: WHOLE BLOOD

| | | | | |
|-------------|-----------|----------|----------|---------------------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 | (#Refers to current |
| Coll. Time: | 08:25 | 16:10 | 09:40 | result only) |
| Lab Number: | #22021329 | 90358258 | 86189651 | |

| | | | |
|-------------|-------|-------|--|
| HAEMOGLOBIN | 140 | 132 | 145 (115 - 165) g/L |
| RBC | 4.31 | 3.88 | 4.44 (3.80 - 5.50)x10 ¹² /L |
| HCT | 0.43 | 0.39 | 0.45 (0.35 - 0.47) |
| MCV | 99 * | 100 * | 101 (80 - 99) fL |
| MCH | 32.5 | 34.0 | 32.7 (27.0 - 34.0)pg |
| MCHC | 329 | 342 | 324 (310 - 360) g/L |
| RDW | 11.4 | 14.1 | 14.0 (11.0 - 15.0)% |
| WCC | 5.7 | 7.5 | 6.7 (4.0 - 11.0) x10 ⁹ /L |
| Neutrophils | 2.6 | 3.9 | 3.1 (2.0 - 8.0) x10 ⁹ /L |
| Lymphocytes | 2.5 | 2.8 | 3.0 (1.0 - 4.0) x10 ⁹ /L |
| Monocytes | 0.6 | 0.7 | 0.4 (< 1.1) x10 ⁹ /L |
| Eosinophils | < 0.1 | < 0.1 | < 0.1 (< 0.7) x10 ⁹ /L |
| Basophils | < 0.1 | < 0.1 | < 0.1 (< 0.3) x10 ⁹ /L |
| PLATELETS | 346 | 361 | 354 (150 - 450) x10 ⁹ /L |
| MPV | 9.7 | 9.6 | 9.8 (7.1 - 11.2) fL |
| ESR | | 17 | (< 21) mm/h |

#22021329 : The red cell, white cell and platelet parameters are within normal limits.

TESTS COMPLETED: FBE,
 INCOMPLETE TESTS: BFO, AVB, IS, CA, ECU, LFT, PO4, OHD, PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-OHD-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: VITAMIN D
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024
14:58

CLINICAL NOTES: to follow

BIOCHEMISTRY

VITAMIN D

SPECIMEN: SERUM

| Date | Time | Lab No. | | 25-hydroxy Vitamin D | | |
|----------|-------|----------|----|-------------------------|------------|--------|
| 28/08/24 | 08:25 | 22021329 | ** | 23 | (50 - 200) | nmol/L |
| 31/01/23 | 13:30 | 74723403 | * | 34 | | |

22021329 Vitamin D remains low. Suggest review vitamin D dose and compliance if on treatment.

Interpretation:

Vitamin D deficiency <50 nmol/L
Severe deficiency <20 nmol/L

COMMENT: Vitamin D sufficiency is defined as greater than or equal to 50 nmol/L at the end of winter (level may need to be 10-20 nmol/L higher at the end of summer).

Reference: Position Statement. Vitamin D and Health in Adults in Australia and New Zealand. MJA,196(11): 686-687, 2012.

TESTS COMPLETED: FBE, IS, OHD,
INCOMPLETE TESTS: BFO, AVB, CA, ECU, LFT, PO4, PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-ISM-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:

DR SARAH CARTER
PATIENT COPY:

Name of Test: IRON MASTER
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024
14:58

CLINICAL NOTES: to follow

BIOCHEMISTRY

IRON STUDIES

SPECIMEN: SERUM

| | | | |
|-------------|----------|----------|----------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 |
| Coll. Time: | 08:25 | 16:10 | 09:40 |
| Lab Number: | 22021329 | 90358258 | 86189651 |

| | | | |
|-------------|------|------|----------------------|
| Iron | 16.3 | 18.3 | (10.0 - 30.0) umol/L |
| Transferrin | 2.81 | 3.03 | (2.10 - 3.80) g/L |
| Saturation | 23 | 24 | (15 - 45) % |
| Ferritin | 155 | 141 | 171 (30 - 300) ug/L |

22021329 Iron studies are within normal limits.

TESTS COMPLETED: FBE, IS, OHD,
INCOMPLETE TESTS: BFO, AVB, CA, ECU, LFT, PO4, PTH, SEL,

BRADLEY, LISA
 110 COSIMO DRIVE, WOODVALE. 6026
 Phone: 0439034491
 Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
 Your Reference: 00001598 Lab Reference: 24-22021329-BFM-0
 Laboratory: AUSTRALIAN CLINICAL LABS
 Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
 Copy to:
 DR SARAH CARTER
 PATIENT COPY:

Name of Test: B12, FOLATE (SERUM/RBC)
 Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024
 15:14

CLINICAL NOTES: to follow

BIOCHEMISTRY

VITAMIN B12 AND FOLATE

SPECIMEN: SERUM/BLOOD

| | | | |
|-------------|----------|----------|----------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 |
| Time: | 08:25 | 16:10 | 09:40 |
| Lab Number: | 22021329 | 90358258 | 86189651 |

| | | | | |
|-------------|-------|-------|-----------|--------|
| Vitamin B12 | 240 | 211 * | 173 | pmol/L |
| Active B12 | > 146 | 80 | 83 (> 30) | pmol/L |
| Folate | 41.1 | 28.7 | 35.2 | nmol/L |

22021329 Normal B12 and folate results.

| RANGES | B12 | Serum Folate |
|-----------|-----------|--------------|
| Normal | > 180 | > 10.0 |
| Equivocal | 150 - 180 | 5.0 - 10.0 |
| Deficient | < 150 | < 5.0 |

TESTS COMPLETED: BFO, AVB, FBE, IS, OHD,
 INCOMPLETE TESTS: CA, ECU, LFT, PO4, PTH, SEL,

BRADLEY, LISA
 110 COSIMO DRIVE, WOODVALE. 6026
 Phone: 0439034491
 Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
 Your Reference: 00001598 Lab Reference: 24-22021329-MBI-0
 Laboratory: AUSTRALIAN CLINICAL LABS
 Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
 Copy to:
 DR SARAH CARTER
 PATIENT COPY:

Name of Test: MULTIPLE BIOCHEM ANALYSIS
 Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024
 16:49

CLINICAL NOTES: to follow

GENERAL CHEMISTRY

SPECIMEN: SERUM

| Date: | 28/08/24 | 28/05/24 | 26/04/24 | | |
|-------------|----------|----------|----------|----------------------|--------|
| Coll. Time: | 08:25 | 16:10 | 09:40 | | |
| Lab Number: | 22021329 | 90358258 | 86189651 | | |
| Sodium | 137 | 136 | 137 | (135 - 145) | mmol/L |
| Potassium | 4.4 | 4.8 | 4.4 | (3.5 - 5.2) | mmol/L |
| Chloride | 105 | 103 | 102 | (95 - 110) | mmol/L |
| Bicarbonate | 28 | 23 | 28 | (22 - 32) | mmol/L |
| Anion Gap * | 8 | 15 | 11 | (9 - 19) | mmol/L |
| Urea | 6.8 | * 9.2 | 7.3 | (3.5 - 8.0) | mmol/L |
| Creatinine | 77 | 71 | * 96 | (45 - 90) | umol/L |
| eGFR | 76 | 84 | 58 | (> 59) mL/min/1.73m2 | |
| Calcium | * 2.77 | * 2.66 | | (2.10 - 2.60) | mmol/L |
| Adj. Ca. | * 2.71 | 2.58 | | (2.10 - 2.60) | mmol/L |
| Magnesium | | 0.84 | 0.85 | (0.70 - 1.10) | mmol/L |
| Phosphate | 1.11 | 1.06 | | (0.75 - 1.50) | mmol/L |
| T.Protein | 75 | 77 | 80 | (60 - 80) | g/L |
| Albumin | 44 | 45 | 47 | (35 - 50) | g/L |
| Globulin | 31 | 32 | 33 | (23 - 39) | g/L |
| ALP | 72 | 83 | 77 | (30 - 110) | U/L |
| Bilirubin | 11 | 8 | 11 | (3 - 20) | umol/L |
| GGT | 30 | 29 | 34 | (5 - 35) | U/L |
| AST | * 32 | * 34 | * 85 | (5 - 30) | U/L |
| ALT | 31 | 29 | * 47 | (5 - 35) | U/L |
| LD | | 191 | | (120 - 250) | U/L |

22021329 ELECTROLYTES
 Elevated calcium. PTH and serum 25 hydroxy vitamin D to follow.
 LIVER FUNCTION
 An elevation of AST with a normal ALT may be of muscle or cellular origin. Consider repeat with CK and LDH if clinically indicated.

tm

TESTS COMPLETED: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHD,
INCOMPLETE TESTS: PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-PTH-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: PARATHYROID HORMONE
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 29/08/2024
01:14

CLINICAL NOTES: to follow

ENDOCRINOLOGY

PARATHYROID HORMONE

SPECIMEN: SERUM

| Date | Req. No. | PTH | Units | Ref. Range |
|----------|----------|-----|--------|-------------|
| 28/08/24 | 22021329 | 6.2 | pmol/L | (2.0 - 8.5) |

22021329 A normal or unsuppressed parathyroid hormone value suggests primary hyperparathyroidism in the presence of persistent hypercalcemia. Suggest urine calcium/creatinine ratio for further evaluation if clinically indicated.

tm

TESTS COMPLETED: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHD, PTH,
INCOMPLETE TESTS: SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-TMS-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:

DR SARAH CARTER
PATIENT COPY:

Name of Test: TRACE METALS SERUM/PLASMA
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 30/08/2024
13:08

CLINICAL NOTES: to follow

TOXICOLOGY
TRACE METALS

SPECIMEN: SERUM/PLASMA

Date: 28/08/24
Coll. Time: 08:25
Lab Number: 22021329

Selenium 1.9 (0.6 - 1.9) umol/L

TESTS COMPLETED: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHd, PTH, SEL,

Result Date : 28/05/2024 16:10

CLINICAL NOTES: chest pain

BIOCHEMISTRY

LIPID STUDIES

SPECIMEN: SERUM

| | | | | |
|----------------|------------|------------|----------|-----------------|
| Date: | 28/05/24 | 26/04/24 | 31/01/23 | |
| Coll. Time: | 16:10 | 09:40 | 13:30 | Desirable Range |
| Lab Number: | 90358258 | 86189651 | 74723403 | (Fasting) |
| Fasting Status | Not Stated | Not Stated | Random | |
| Total Chol. | *** 12.8 | *** 18.4 | *** 11.6 | (< 5.6) mmol/L |
| HDL Chol. | 1.7 | 1.9 | 1.5 | (> 1.1) mmol/L |
| LDL Chol. | *** 9.7 | *** 15.7 | *** 9.0 | (< 3.1) mmol/L |
| Non-HDL Chol. | * 11.1 | * 16.5 | 10.1 | (< 4.1) mmol/L |
| Triglyceride | * 3.1 | 1.8 | * 2.4 | (< 2.1) mmol/L |
| LDL/HDL Ratio | 5.7 | 8.3 | 6.0 | |
| Chol/HDL Ratio | 7.5 | 9.7 | 7.7 | |

90358258 Mild hypertriglyceridaemia. Familial hypercholesterolaemia (an autosomal co-dominant condition associated with elevated cholesterol and premature CVD) is a very important consideration with an LDL-c above 6.4 mmol/L. Secondary causes include hypothyroidism, cholestasis, steroids, and nephrotic syndrome. Suggest review for clinical stigmata of FH (eg tendon xanthomata) and review family history and calculate the FH likelihood (<http://www.athero.org.au/fh/calculator>), and for a list of FH specialists. Recommend specialist review and consideration of genetic testing. Elevated triglycerides may be secondary to poor diet, alcohol, diabetes or hypothyroidism.

Please note, from 27/09/2023, modified lipid reference ranges apply.

Recommended targets for high risk patients are

Total cholesterol < 4.0 mmol/L
HDL Cholesterol > 1.0 mmol/L
LDL Cholesterol < 2.5 mmol/L (< 1.8 mmol/L for very high risk)
Non-HDL Cholesterol < 3.3 mmol/L (< 2.5 mmol/L for very high risk)
Fasting triglycerides < 2.0 mmol/L

Lipid ranges and targets are from the AACB Guideline for Harmonised Lipid Reporting (2018)

Target values need to be individualised based on clinical assessment of overall risk.

See the AusCVD Risk calculator at www.cvdcheck.org.au

Validated by Dr. D. Deam

AVB-R CRP-R GLS-R TIH-R BFO-R CK-R ESR-R FBE-R IS-R LIP-C CA

All tests on this request have now been completed
Panel Free Text:

Validated by Dr. D. Deam

Fasting status: Not Stated
Total Cholesterol: 12.8 mmol/L (< 5.6)HH
Triglycerides: 3.1 mmol/L (< 2.1)H
H.D.L. Cholesterol: 1.7 mmol/L (> 1.1)
Non-HDL Cholesterol: 11.1 mmol/L (< 4.1)H
L.D.L. Cholesterol: 9.7 mmol/L (< 3.1)HH
LDL/HDL Ratio (Risk Factor): 5.7
Chol/HDL Ratio (Risk Factor): 7.5

Lipid Comment:

Mild hypertriglyceridaemia. Familial hypercholesterolaemia (an autosomal co-dominant condition associated with elevated cholesterol and premature CVD) is a very important consideration with an LDL-c above 6.4 mmol/L. Secondary causes include hypothyroidism, cholestasis, steroids, and nephrotic syndrome. Suggest review for clinical stigmata of FH (eg tendon xanthomata) and review family history and calculate the FH likelihood (<http://www.athero.org.au/fh/calculator>), and for a list of FH specialists. Recommend specialist review and consideration of genetic testing. Elevated triglycerides may be secondary to poor diet, alcohol, diabetes or hypothyroidism.

Ref Range:

Desirable Range (Fasting)

HIGH RISK LDL REF RANGE:

Recommended targets for high risk patients are

Total cholesterol < 4.0 mmol/L

HDL Cholesterol > 1.0 mmol/L

LDL Cholesterol < 2.5 mmol/L (< 1.8 mmol/L for very high risk) Non-HDL

Cholesterol < 3.3 mmol/L (< 2.5 mmol/L for very high risk) Fasting triglycerides < 2.0 mmol/L

Lipid ranges and targets are from the AACB Guideline for Harmonised Lipid Reporting (2018)

Target values need to be individualised based on clinical assessment of overall risk.

See the AusCVD Risk calculator at www.cvdcheck.org.au

COMMENT:

Please note, from 27/09/2023, modified lipid reference ranges apply.

Ordered by:

SARAH CARTER

Collected Date:

28-May-2024

Reported Date:

29-May-2024

Result Date : 06/06/2024 09:17
CLINICAL NOTES: 2 weekly monitoring

BIOCHEMISTRY - THYROID AUTOANTIBODIES - CUMULATIVE SPECIMEN: SERUM

| Date | Lab Number | aTGII (IU/ml) (< 4.5) | aTPO (U/ml) (< 60) |
|----------|------------|------------------------------|---------------------------|
| 06/06/24 | 90358087 | 4.4 | * 72 |
| 06/06/24 | 90358088 * | 4.6 | * 79 |

Key:
aTGII - anti-thyroglobulin antibodies
aTPO - anti-thyroid peroxidase antibodies

Anti-ThyroGlobulin assay (aTGII) is standardised to the WHO International Reference Preparation, Human (NIBSC 65/093) and is performed on the Siemens Centaur/Atellica Immunoassay systems.

Elevated thyroid peroxidase antibody level. This may be associated with auto-immune thyroid disease. TSH receptor antibodies to follow.

THA-C TSI-V TSR-W TFT-R FT4-R

This request has other tests in progress at the time of reporting
Thyroid peroxidase antibody: 72 U/mL (< 60)H
Comment:
Elevated thyroid peroxidase antibody level. This may be associated with auto-immune thyroid disease. TSH receptor antibodies to follow.
Thyroglobulin antibodies: 4.4 IU/mL (< 4.5)
COMMENT:

Key:
aTGII - anti-thyroglobulin antibodies
aTPO - anti-thyroid peroxidase antibodies

Anti-ThyroGlobulin assay (aTGII) is standardised to the WHO International Reference Preparation, Human (NIBSC 65/093) and is performed on the Siemens Centaur/Atellica Immunoassay systems.

Copy to:
IMRAN BADSHAH
Copy to:
IMRAN BADSHAH
Ordered by:
SARAH CARTER
Collected Date:
06-Jun-2024

Result Date : 06/06/2024 09:17

CLINICAL NOTES: 2 weekly monitoring

IMMUNOLOGY

SPECIMEN: SERUM

TSH RECEPTOR ANTIBODIES

Date Lab No. TSH Receptor Antibodies

| | | | | |
|----------|----------|-----|---------|------|
| 06/06/24 | 90358087 | 1.1 | (< 1.8) | IU/L |
|----------|----------|-----|---------|------|

The following results on this sample have been reported in detail,
and are reproduced here in abbreviated form for your convenience.

| | | | |
|------------------------------|------|--------|----------------|
| Thyroid peroxidase ab. titre | 72 | | (0 - 59) |
| Free Thyroxine (FT4) | 24.3 | pmol/L | (9.00 - 20.00) |
| Thyroid Stimulating Hormone | 5.96 | mIU/L | (0.40 - 4.00) |

As of the 18/11/19 a new anti-TSH Receptor Antibody is in use. This assay has an increased tolerance to Biotin interference.

THA-R TSI-V TSR-C TFT-R FT4-R

This request has other tests in progress at the time of reporting

| | |
|-------------------------------|------------------------------|
| TSH Receptor antibodies: | 1.1 IU/L (< 1.8) |
| Thyroid peroxidase ab. titre: | 72 (0 - 59) |
| FT4: | 24.3 pmol/L (9.00 - 20.00) |
| TSH: | 5.96 mIU/L (0.40 - 4.00) |

ASSAY COMMENT:

As of the 18/11/19 a new anti-TSH Receptor Antibody is in use. This assay has an increased tolerance to Biotin interference.

Copy to:

IMRAN BADSHAH

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IMRAN BADSHAH

Ordered by:

SARAH CARTER

Collected Date:

06-Jun-2024

Reported Date:

07-Jun-2024

Result Date : 06/06/2024 09:17
CLINICAL NOTES: 2 weekly monitoring

BIOCHEMISTRY

THYROID STIMULATING IMMUNOGLOBULINS (TSI) SPECIMEN: SERUM

| Date | Lab Number | Thyroid Stimulating Immunoglobulins (TSI) IU/L (< 0.55) | TSH Receptor Antibody IU/L (< 1.8) |
|----------|------------|---|---------------------------------------|
| 06/06/24 | 90358087 | 0.19 | 1.1 |

COMMENT: The manufacturer of the TSI assay, currently in use at ACL, reports clinical sensitivity and specificity for untreated Graves disease, of 98.3% and 99.7% respectively, while for TRAb the reported sensitivity is 96 % and the specificity is 99 %.

THA-R TSI-C TSR-R TFT-R FT4-R

All tests on this request have now been completed
TSH Immunoglobulins (TSI): 0.19 IU/L (< 0.55)
TSH Receptor antibodies: 1.1 IU/L (< 1.8)

COMMENT:
The manufacturer of the TSI assay, currently in use at ACL, reports clinical sensitivity and specificity for untreated Graves disease, of 98.3% and 99.7% respectively, while for TRAb the reported sensitivity is 96 % and the specificity is 99 %.

Copy to:
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Ordered by:
SARAH CARTER
Collected Date:
06-Jun-2024
Reported Date:
10-Jun-2024

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: SCANNED Lab Reference: 24-21994895-TMA-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
DR IMRAN BADSHAH
DR IMRAN BADSHAH

Name of Test: TFT MASTER PANEL
Requested: 29/04/2024 Collected: 12/08/2024 Reported: 12/08/2024 16:35

CLINICAL NOTES: 2 weekly monitoring

ENDOCRINOLOGY

THYROID FUNCTION TEST

SPECIMEN: SERUM

| | | | | |
|-------------|----------|----------|----------|---------------------|
| Date: | 12/08/24 | 06/06/24 | 06/06/24 | |
| Coll. Time: | 08:13 | 09:17 | 09:17 | |
| Lab Number: | 21994895 | 90358087 | 90358088 | |
| Free T4 | 19.7 * | 24.3 * | 25.8 | (9.0 - 25.0) pmol/L |
| TSH | 2.44 * | 5.96 * | 6.53 | (0.40 - 4.00)mIU/L |
| Free T3 | | | 5.1 | (3.5 - 6.5) pmol/L |

21994895 History of hypothyroidism and positive thyroid antibodies.
Euthyroid levels.

Please note an updated reference range for FT4 since 26/06/2024.

TESTS COMPLETED: FT4, TFT,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-TF-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: TO FOLLOW PANEL
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024 11:01

CLINICAL NOTES: to follow

SPECIMEN RECEPTION

Specimens to follow:

REF: REFERRED TEST Outstanding

We are currently awaiting receipt of a suitable specimen to complete the above tests.

INCOMPLETE TESTS: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHD, PTH, SEL,

BRADLEY, LISA
 110 COSIMO DRIVE, WOODVALE. 6026
 Phone: 0439034491
 Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
 Your Reference: 00001598 Lab Reference: 24-22021329-HAE-0
 Laboratory: AUSTRALIAN CLINICAL LABS
 Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
 Copy to:
 DR SARAH CARTER
 PATIENT COPY:

Name of Test: HAEMATOLOGY GENERAL
 Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024 13:09

CLINICAL NOTES: to follow

HAEMATOLOGY

SPECIMEN: WHOLE BLOOD

| | | | | |
|-------------|-----------|----------|--------------------|----------------------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 | (#Refers to current |
| Coll. Time: | 08:25 | 16:10 | 09:40 | result only) |
| Lab Number: | #22021329 | 90358258 | 86189651 | |
| <hr/> | | | | |
| HAEMOGLOBIN | 140 | 132 | 145 (115 - 165) | g/L |
| RBC | 4.31 | 3.88 | 4.44 (3.80 - 5.50) | x10 ¹² /L |
| HCT | 0.43 | 0.39 | 0.45 (0.35 - 0.47) | |
| MCV | 99 * | 100 * | 101 (80 - 99) | fL |
| MCH | 32.5 | 34.0 | 32.7 (27.0 - 34.0) | pg |
| MCHC | 329 | 342 | 324 (310 - 360) | g/L |
| RDW | 11.4 | 14.1 | 14.0 (11.0 - 15.0) | % |
| WCC | 5.7 | 7.5 | 6.7 (4.0 - 11.0) | x10 ⁹ /L |
| Neutrophils | 2.6 | 3.9 | 3.1 (2.0 - 8.0) | x10 ⁹ /L |
| Lymphocytes | 2.5 | 2.8 | 3.0 (1.0 - 4.0) | x10 ⁹ /L |
| Monocytes | 0.6 | 0.7 | 0.4 (< 1.1) | x10 ⁹ /L |
| Eosinophils | < 0.1 | < 0.1 | < 0.1 (< 0.7) | x10 ⁹ /L |
| Basophils | < 0.1 | < 0.1 | < 0.1 (< 0.3) | x10 ⁹ /L |
| PLATELETS | 346 | 361 | 354 (150 - 450) | x10 ⁹ /L |
| MPV | 9.7 | 9.6 | 9.8 (7.1 - 11.2) | fL |
| ESR | | 17 | (< 21) | mm/h |

#22021329 : The red cell, white cell and platelet parameters are within normal limits.

TESTS COMPLETED: FBE,
 INCOMPLETE TESTS: BFO, AVB, IS, CA, ECU, LFT, PO4, OHD, PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-OHD-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: VITAMIN D
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024 14:58

CLINICAL NOTES: to follow

BIOCHEMISTRY

VITAMIN D

SPECIMEN: SERUM

| Date | Time | Lab No. | 25-hydroxy Vitamin D | | | |
|----------|-------|----------|-------------------------|----|------------|--------|
| 28/08/24 | 08:25 | 22021329 | ** | 23 | (50 - 200) | nmol/L |
| 31/01/23 | 13:30 | 74723403 | * | 34 | | |

22021329 Vitamin D remains low. Suggest review vitamin D dose and compliance if on treatment.

Interpretation:

Vitamin D deficiency <50 nmol/L
Severe deficiency <20 nmol/L

COMMENT: Vitamin D sufficiency is defined as greater than or equal to 50 nmol/L at the end of winter (level may need to be 10-20 nmol/L higher at the end of summer).

Reference: Position Statement. Vitamin D and Health in Adults in Australia and New Zealand. MJA,196(11): 686-687, 2012.

TESTS COMPLETED: FBE, IS, OHD,
INCOMPLETE TESTS: BFO, AVB, CA, ECU, LFT, PO4, PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-ISM-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: IRON MASTER
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024 14:58

CLINICAL NOTES: to follow

BIOCHEMISTRY

IRON STUDIES

SPECIMEN: SERUM

| | | | | |
|-------------|----------|----------|----------|----------------------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 | |
| Coll. Time: | 08:25 | 16:10 | 09:40 | |
| Lab Number: | 22021329 | 90358258 | 86189651 | |
| <hr/> | | | | |
| Iron | 16.3 | 18.3 | | (10.0 - 30.0) umol/L |
| Transferrin | 2.81 | 3.03 | | (2.10 - 3.80) g/L |
| Saturation | 23 | 24 | | (15 - 45) % |
| Ferritin | 155 | 141 | 171 | (30 - 300) ug/L |

22021329 Iron studies are within normal limits.

TESTS COMPLETED: FBE, IS, OHD,
INCOMPLETE TESTS: BFO, AVB, CA, ECU, LFT, PO4, PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-BFM-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: B12, FOLATE (SERUM/RBC)
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024 15:14

CLINICAL NOTES: to follow

BIOCHEMISTRY

VITAMIN B12 AND FOLATE

SPECIMEN: SERUM/BLOOD

| | | | |
|-------------|----------|----------|----------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 |
| Time: | 08:25 | 16:10 | 09:40 |
| Lab Number: | 22021329 | 90358258 | 86189651 |

| | | | | |
|-------------|-------|-------|-----------|--------|
| Vitamin B12 | 240 | 211 * | 173 | pmol/L |
| Active B12 | > 146 | 80 | 83 (> 30) | pmol/L |
| Folate | 41.1 | 28.7 | 35.2 | nmol/L |

22021329 Normal B12 and folate results.

| | | |
|-----------|-----------|--------------|
| RANGES | B12 | Serum Folate |
| Normal | > 180 | > 10.0 |
| Equivocal | 150 - 180 | 5.0 - 10.0 |
| Deficient | < 150 | < 5.0 |

TESTS COMPLETED: BFO, AVB, FBE, IS, OHD,
INCOMPLETE TESTS: CA, ECU, LFT, PO4, PTH, SEL,

BRADLEY, LISA
 110 COSIMO DRIVE, WOODVALE. 6026
 Phone: 0439034491
 Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
 Your Reference: 00001598 Lab Reference: 24-22021329-MBI-0
 Laboratory: AUSTRALIAN CLINICAL LABS
 Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
 Copy to:
 DR SARAH CARTER
 PATIENT COPY:

Name of Test: MULTIPLE BIOCHEM ANALYSIS
 Requested: 22/08/2024 Collected: 28/08/2024 Reported: 28/08/2024 16:49

CLINICAL NOTES: to follow

GENERAL CHEMISTRY SPECIMEN: SERUM

| | | | | | |
|-------------|----------|----------|----------|----------------------|--------|
| Date: | 28/08/24 | 28/05/24 | 26/04/24 | | |
| Coll. Time: | 08:25 | 16:10 | 09:40 | | |
| Lab Number: | 22021329 | 90358258 | 86189651 | | |
| Sodium | 137 | 136 | 137 | (135 - 145) | mmol/L |
| Potassium | 4.4 | 4.8 | 4.4 | (3.5 - 5.2) | mmol/L |
| Chloride | 105 | 103 | 102 | (95 - 110) | mmol/L |
| Bicarbonate | 28 | 23 | 28 | (22 - 32) | mmol/L |
| Anion Gap | * 8 | 15 | 11 | (9 - 19) | mmol/L |
| Urea | 6.8 | * 9.2 | 7.3 | (3.5 - 8.0) | mmol/L |
| Creatinine | 77 | 71 | * 96 | (45 - 90) | umol/L |
| eGFR | 76 | 84 | 58 | (> 59) mL/min/1.73m2 | |
| Calcium | * 2.77 | * 2.66 | | (2.10 - 2.60) | mmol/L |
| Adj. Ca. | * 2.71 | 2.58 | | (2.10 - 2.60) | mmol/L |
| Magnesium | | 0.84 | 0.85 | (0.70 - 1.10) | mmol/L |
| Phosphate | 1.11 | 1.06 | | (0.75 - 1.50) | mmol/L |
| T.Protein | 75 | 77 | 80 | (60 - 80) | g/L |
| Albumin | 44 | 45 | 47 | (35 - 50) | g/L |
| Globulin | 31 | 32 | 33 | (23 - 39) | g/L |
| ALP | 72 | 83 | 77 | (30 - 110) | U/L |
| Bilirubin | 11 | 8 | 11 | (3 - 20) | umol/L |
| GGT | 30 | 29 | 34 | (5 - 35) | U/L |
| AST | * 32 | * 34 | * 85 | (5 - 30) | U/L |
| ALT | 31 | 29 | * 47 | (5 - 35) | U/L |
| LD | | 191 | | (120 - 250) | U/L |

22021329 ELECTROLYTES
 Elevated calcium. PTH and serum 25 hydroxy vitamin D to follow.
 LIVER FUNCTION
 An elevation of AST with a normal ALT may be of muscle or cellular origin. Consider repeat with CK and LDH if clinically indicated.

tm

TESTS COMPLETED: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHd,
 INCOMPLETE TESTS: PTH, SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-PTH-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
Copy to:
DR SARAH CARTER
PATIENT COPY:

Name of Test: PARATHYROID HORMONE
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 29/08/2024 01:14

CLINICAL NOTES: to follow

ENDOCRINOLOGY

PARATHYROID HORMONE

SPECIMEN: SERUM

| Date | Req. No. | PTH | Units | Ref. Range |
|----------|----------|-----|--------|-------------|
| 28/08/24 | 22021329 | 6.2 | pmol/L | (2.0 - 8.5) |

22021329 A normal or unsuppressed parathyroid hormone value suggests primary hyperparathyroidism in the presence of persistent hypercalcemia. Suggest urine calcium/creatinine ratio for further evaluation if clinically indicated.

tm

TESTS COMPLETED: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHD, PTH,
INCOMPLETE TESTS: SEL,

BRADLEY, LISA
110 COSIMO DRIVE, WOODVALE. 6026
Phone: 0439034491
Birthdate: 11/06/1971 Sex: F Medicare Number: 62813253821
Your Reference: 00001598 Lab Reference: 24-22021329-TMS-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SARAH CARTER Referred by: DR SARAH CARTER
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DR SARAH CARTER
PATIENT COPY:

Name of Test: TRACE METALS SERUM/PLASMA
Requested: 22/08/2024 Collected: 28/08/2024 Reported: 30/08/2024 13:08

CLINICAL NOTES: to follow

TOXICOLOGY
TRACE METALS

SPECIMEN: SERUM/PLASMA

Date: 28/08/24
Coll. Time: 08:25
Lab Number: 22021329

Selenium 1.9 (0.6 - 1.9) umol/L

TESTS COMPLETED: BFO, AVB, FBE, IS, CA, ECU, LFT, PO4, OHD, PTH, SEL,